

**General Information****1992**

**Video: 4 Heads Rotary  
Audio: Fixed Head 1CH  
Covers Models  
Akai VS-F441/F450  
Akai VS-F455/F490  
Akai VS-F497**

**Matrix**

Item	See Model
Mechanical Parts View	Akai VS-422/425 89/90 Book.
Mechanical Adjustments	Akai VS-F10/F11 91/92 Book.
Replacement of Idler	Akai VS-F410
Back Tension Adjustment	Akai VS-F260
Power Supply - VS-F490	Akai VS-F260
Power Supply - VS-F440	Akai VS-F260
Power Supply - VS-F441/F450/ F455/F490/F497	Akai VS-F260
Main Diagram 1/3	Akai VS-F260
Main Diagram (B)	Akai VS-F260
Operation (A)	Akai VS-F260
VPST/PDC	Akai VS-F260
VIF Unit	Akai VS-F260
R/C Others	Akai VS-F260

**Head Motors and  
Miscellaneous**

Part No.	Description
All models:	
BV-V1123A410B	Lower Drum BLK X450DGN
BV-V1123A420B	Upper Drum BLK X450EGN
BM-401296J1	Motor E20EL89 (Drum Motor)
For Models: VS-F440EA/EDG/ED1/EK/EM/EO/ EOG-V/EOH VS-F441EA/F450-EOH VS-F455EOH	
HR-405340J	Head Combo HVMZA1121A
HE-390013J	Head E HVFME0020A
For Models: VS-F480EK-V/EOG-V VS-F490EM/EO/EOH/ES VS-F497EOH	
HR-405340J	Head Combo HVMZA1121A
HE-390013J	Head HVFME0020A
For Models: VS-F480EK-V/EOG-V VS-F490EM/EO/EOH/ES VS-F497EOH	
BM-400682J1	Motor DFX-67B3VWB1 (Capstan Motor)
BM-387503J	Motor Part (Loading Motor)

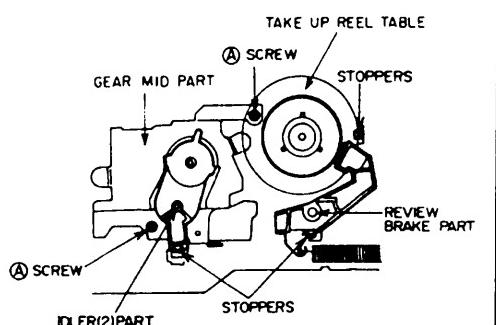
**Recommended Safety Parts**

Item	Part No.	Description
<b>Models: EA/EDI</b>		
D1 - D12	ED-511907	D Silicon 1N4002 100/1.0A
D16	ED-404029J	D Zener H UTZJ10B T26
D18	ED-511907	D Silicon 1N4002 100/1.0A
FR1 , FR3	ER-408375J	R Fuse V TO5RF25SCPVT1/4WR12K
FR2, FR4	ER-400728J	R Fuse V TO5 RF25SCVTP1/4WR12K
FR5	ER-400605J	R Fuse V TO5 ERD2FCV1/4W15ROG
TR1	ET-381175J	TR 2SD1856
TR2, TR7	ET-366365	TR 2SB1185 E,F
TR3, TR4, TR5	ET-405622J	TR 2SD2061 E,F
TR6	ET-391025J	TR 2SD2012
<b>Model: EM</b>		
C101	EC-389414J	C CE V DE7 B102K 400AC
D3, D4	ED-511907	D Silicon 1N4002 100/1.0A
D6, D11	ED-386226J	D Schottky RB100AT-32T26 40/1
D8	ED-386226J	D Schottky RB100AT-32T26 30/1
D16	ED-307572	D Silicon H 1SS131
D17, D18, D71	ED-511907	D Silicon 1N4002 100/1.0A
D72, D73, D74	ER-400728J	R Fuse V TO5 RF25SCVTP1/4WR12K
D101	ER-408375J	R Fuse V TO5RF25SCPVT1/4WR12K
FR1	ER-400605J	R Fuse V TO5ERD2FCV 1/4W15ROG
FR2	ER-400689J	R Fuse V TO5RF25SCVTP1/4WR68K
FR3	ER-405441J	R Fuse V TO5RF25SCVTP1/4WR68K
FR4	ER-400689J	R Fuse V TO5RF25SCVTP1/4WR68K
FR5	ER-401039J	R Fuse V TO5ERD2FCV 1/4W 4R7J
RL101	EQ-400153J	Relay POW AG2013 1TR 12V
TR1, TR5	ET-366365	TR 2SB1185 E,F
TR9, TR13	ET-405622J	TR 2SD2061 E,F
TR2, TR7	ET-366168	TR 2SD1292 Q,R
TR4	ET-405622J	TR 2SD2061 E,F
TR12	ET-404195J	TR 2SC4486 S,T T05
TR107	ET-404195J	TR 2SC4486 S,T T05
IC1	EI-381575J	IC BA6121
19A	BT-410487J	Trans POW V1130 EA (EM)
19B	BT-410489J	Trans POW V1130 ES (ED1)
19C	BT-410488J	Trans POW V1130 EM (EM)
<b>Models: F440EK/F490ES</b>		
D1 - D12	ED-511907	D Silicon 1N4002 100/1.0A
D16	ED-404029J	D Zener H UTZJ10B T26
FR1 , FR3	ER-408375J	R Fuse V TO5RF25SCP1/4WR12K
FR2, FR4	ER-400728J	R Fuse V TO5RF25SCVTP1/4WR12K
FR5	ER-400605J	R Fuse V TO5ERD2FCV 1/4W15ROG
TR1	ET-381175J	TR 2SD1856
TR2, TR7	ET-366365	TR2SB1185 E,F
TR3 - TR6	ET-405622J	TR2SD2061 E,F
<b>Model: F480EK</b>		
D3, D4	ED-511907	D Silicon 1N4002 100/1.0A
D6, D8, D11	ED-386226J	D Schottky RB100AT-32T26 40/1
D17, D18, D71	ED-511907	D Silicon 1N4002 100/1.0A
D72, D73, D74	ER-400728J	R Fuse V TO5 RF25SCVTP1/4WR12K
FR1	ER-408375J	R Fuse V TO5 RF25SCPVT1/4WR12K
FR2	ER-400605J	R Fuse V TO5 ERD2FCV 1/4W15ROG
FR3	ER-400689J	R Fuse V TO5 RF25SCVTP1/4WR68K
FR4	ER-405441J	R Fuse V TO5 RF25SCVTP1/4WR27K
FR5	ER-401039J	R Fuse V TO5 RF25SCVTP1/4WR27K
TR1, TR5	ET-366365	TR 2SB1185 E,F
TR9, TR13	ET-405622J	TR 2SD2061 E,F
TR12	ET-404195J	TR 2SC4486 S,T T05
BT-403872J	BT-403883J	Trans Pow V1130 EK (440EK)
BT-403883J	BT-410489J	Trans Pow V1130 EOG-V (480EK)
BT-410489J	Trans Pow V1130 ES (490ES)	
<b>Model: F480EK</b>		
IC1	EI-381575J	IC BA6121
TR2, TR7	ET-405622J	TR 2SD2061 E,F
TR4	ET-404195J	TR 2SC4486 S,T T05
BT-403872J	BT-403883J	Trans Pow V1130 EK (440EK)
BT-403883J	BT-410489J	Trans Pow V1130 EOG-V (480EK)
BT-410489J	Trans Pow V1130 ES (490ES)	

**Mechanical Parts List**

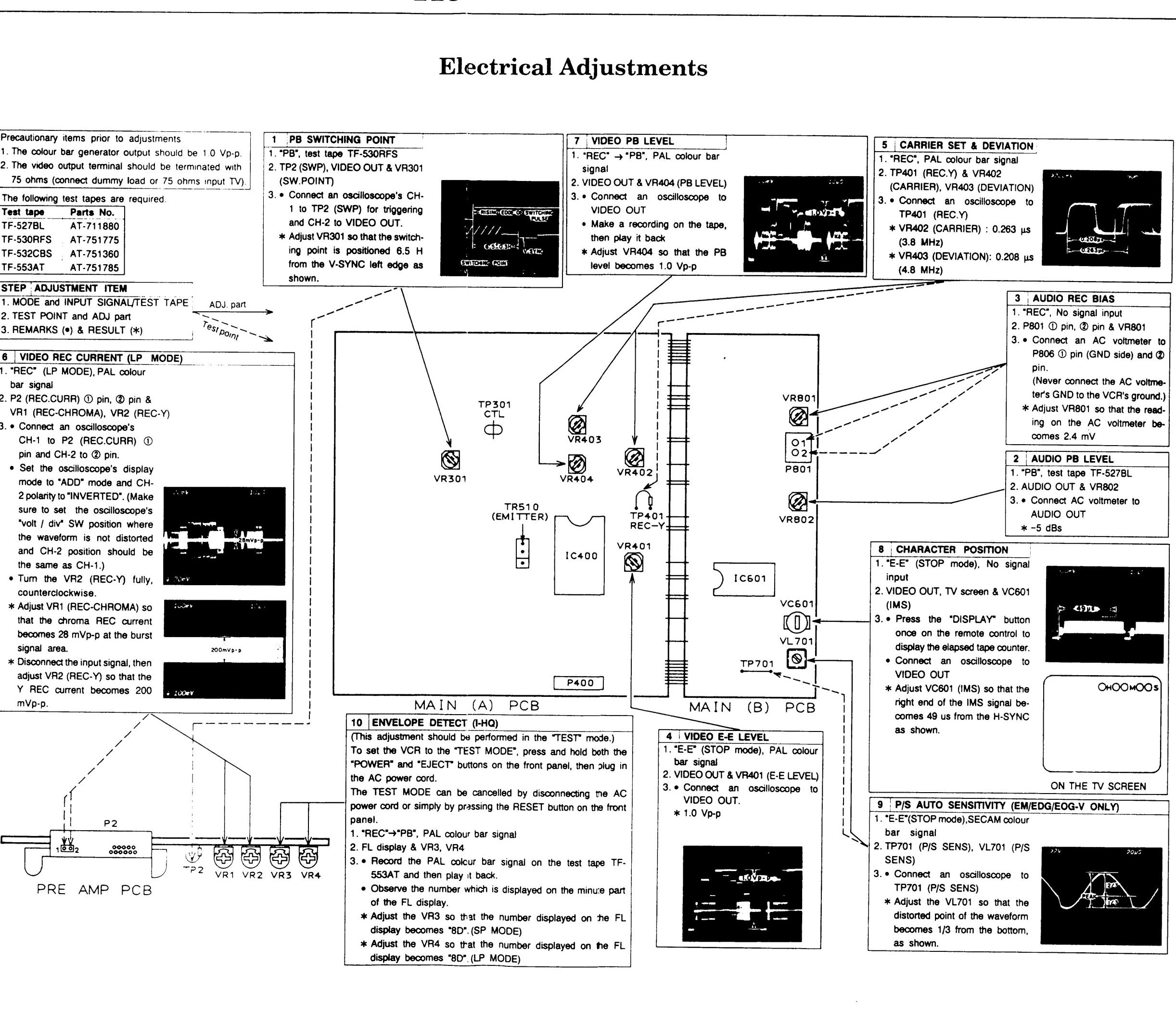
Description	Part No.	Description	Part No.	Description	Part No.
All Models:					
Head Drum Block	MA-38747J3	Slider Front Loading	ML-387428J	SP Pull Main Brake	ZG-387320J
Base Drum	ZS-563444	Slider Pinch Part	ML-387431J1	SP Pull Review Brake	ZG-387323J
BID2X08STL CMT	ZS-379405	SLIT W17X032X025PSL	ZW-374445	SP Pull Tension (2)	ZG-395470J
BID3X06STL CMT	ZS-321298	SP Loading Brake	ZG-387467J	SP Push A/C	ZG-387438J1
BID3X08STL CMT		SP Plate Earth	ZG-392294J	SP Torsion Arm Damper	ZG-395567J
DT BID30X06STL CMT		SP Plate Holder	ZG-387348J1	SP Torsion Damper (S)	ZG-387421J
C080	ZS-389853J	SP Pull Main Brake	ZG-387320J	SP Torsion Damper (T)	ZG-388290J1
Earth Brush Part AG	VT-401282J	SP Pull Review Brake	ZG-387323J	SP Torsion Joint (2)	ZG-392831J
Holder FPC	SZ-387388J	SP Push Tension	ZG-387272J	SP Torsion Load (S)	ZG-387417J
Lower Drum BLK X450EGN	BV-V1123A410B	SP Push A/C	ZG-387438J1	SP Torsion Load (T)	ZG-387418J
MOTOR E20EL89 (Drum Motor)	BM-401296J1	SP Torsion Arm Damper	ZG-395567J	SP Torsion Release	ZG-387420J1
		SP Torsion Damper (S)	ZG-387421J	SP Torsion Review	ZG-387428J
		SP Torsion Damper (T)	ZG-8290J1	ST BID30X06STL CMT	ZS-358936
		SP Torsion Joint (2)	ZG-392831J	ST BID30X12STL CMT	ZS-336714
		SP Torsion Load (S)	ZG-387417J	Tension Arm Blk F600EA	BL-V1123A050A
		SP Torsion Load (T)	ZG-387418J	Holder Lever Tension	SZ-3872631J4
		SP Torsion Release	ZG-387420J1	Tension Band Part	ML-390768J4
		SP Torsion Review	ZG-387282J	Tension Brake Part	MZ-395471J3
<b>For Models:</b>			<b>For Models:</b>		
<b>VS-F490EM/EO/EOH/ES</b>			<b>VS-F490EM/EO/EOH/ES</b>		
<b>VS-F497EOH</b>			<b>VS-F497EOH</b>		
<b>VS-F480EK-V/EOG-V</b>			<b>VS-F480EK-V/EOG-V</b>		
<b>VS-F490EM/EO/EOH/ES</b>			<b>VS-F490EM/EO/EOH/ES</b>		
<b>VS-F497EOH</b>			<b>VS-F497EOH</b>		
<b>For Models:</b>			<b>For Models:</b>		
<b>VS-F440EA/EDE/ED1/EK/EM/EO/EOH-V/EOH</b>			<b>VS-F440EA/EDE/ED1/EK/EM/EO/EOH-V/EOH</b>		
<b>VS-F441EA</b>			<b>VS-F441EA</b>		
<b>VS-F450EOH</b>			<b>VS-F450EOH</b>		
<b>VS-F455EOH</b>			<b>VS-F455EOH</b>		

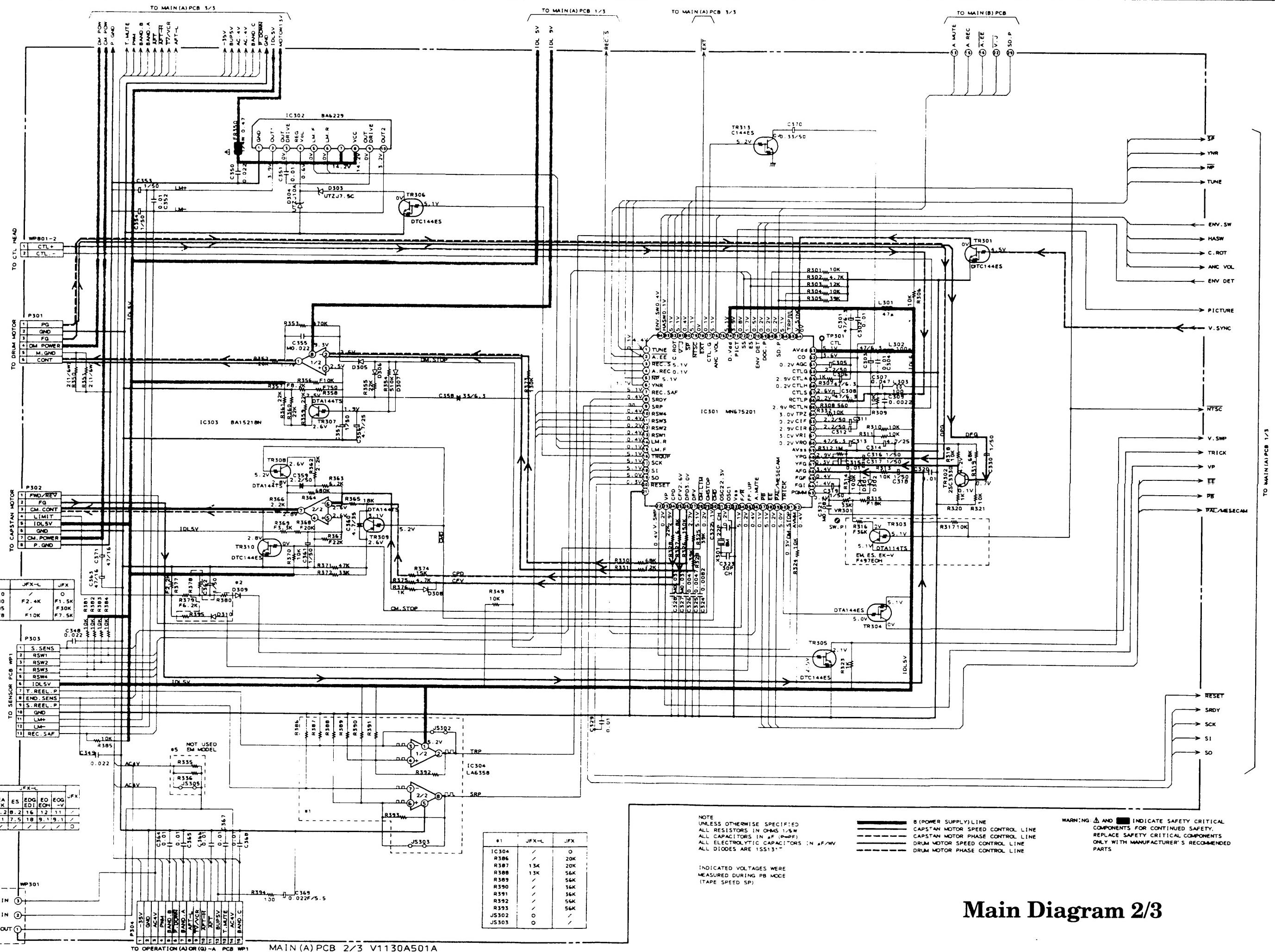
## **Replacement of the Gear Mid Part (JFX Only)**



- 1) Remove the REVIEW BRAKE PART and IDLER (2) PART.
- 2) Release the stopper of the TAKE UP REEL TABLE ,then remove it.
- 3) Remove the two "A" screws then replace the GEAR MID PART as shown above.
- 4) Reassemble in reverse order.

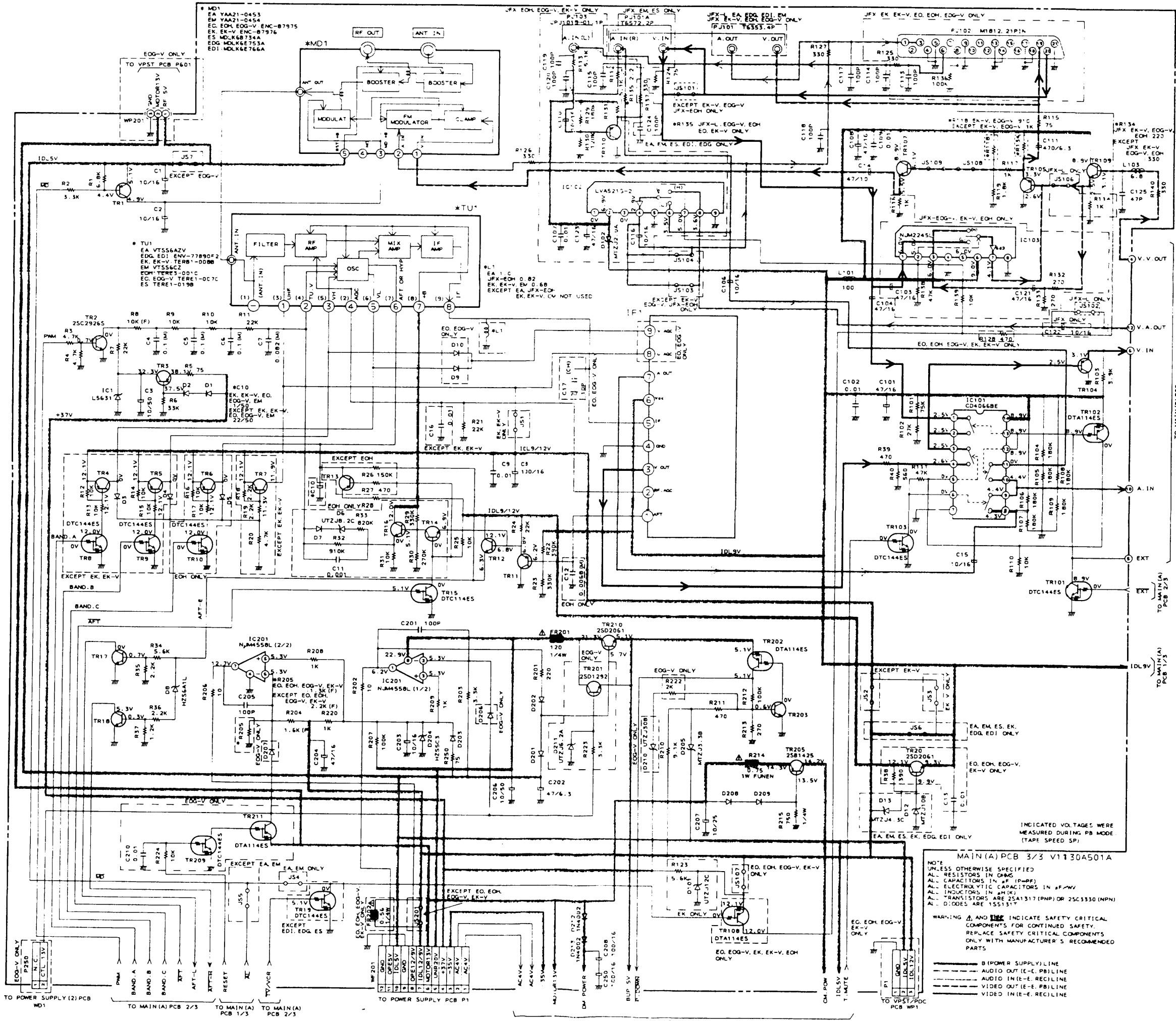
## **Replacement of the Gear Mid Part (JFX Only)**



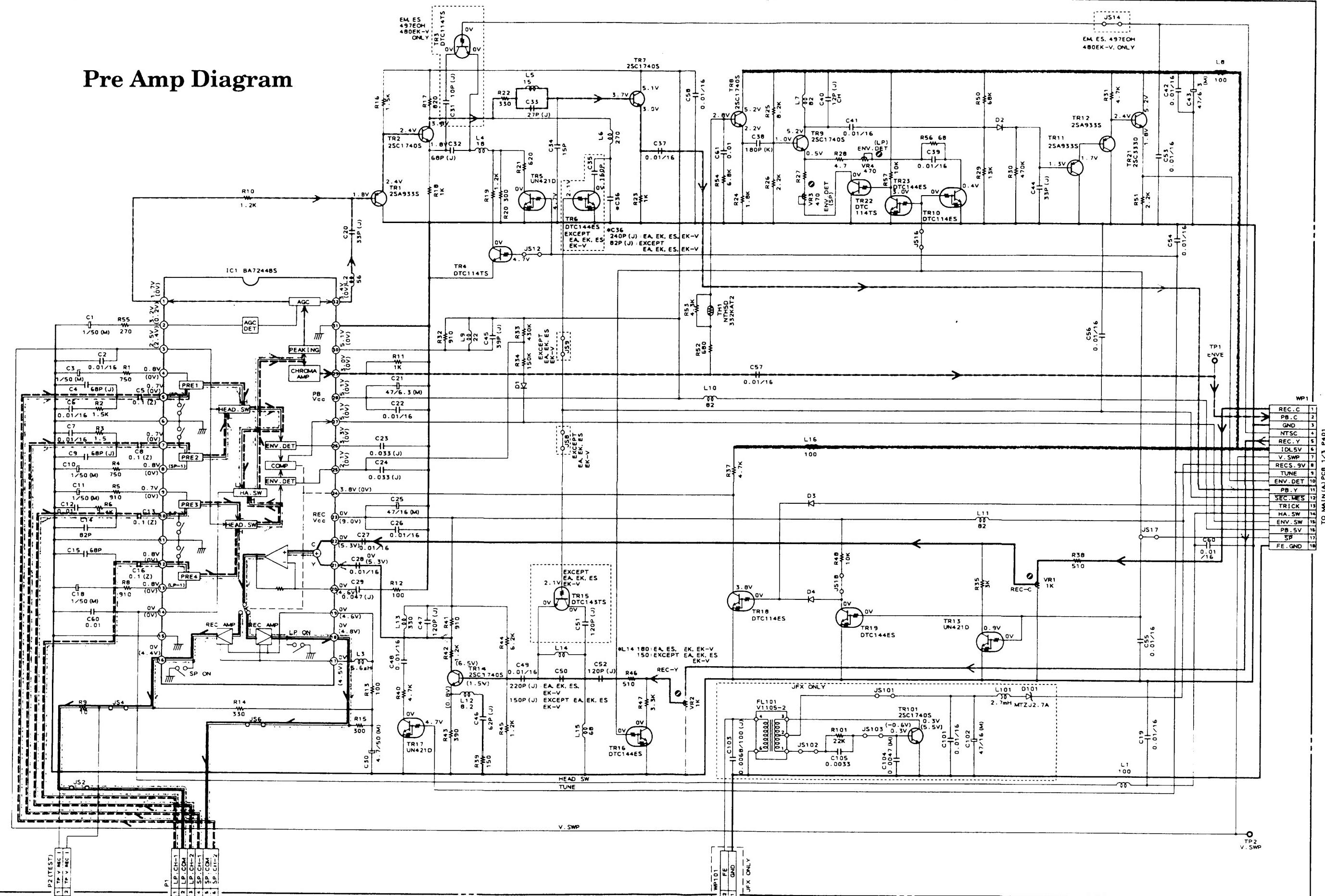


## Main Diagram 2/3

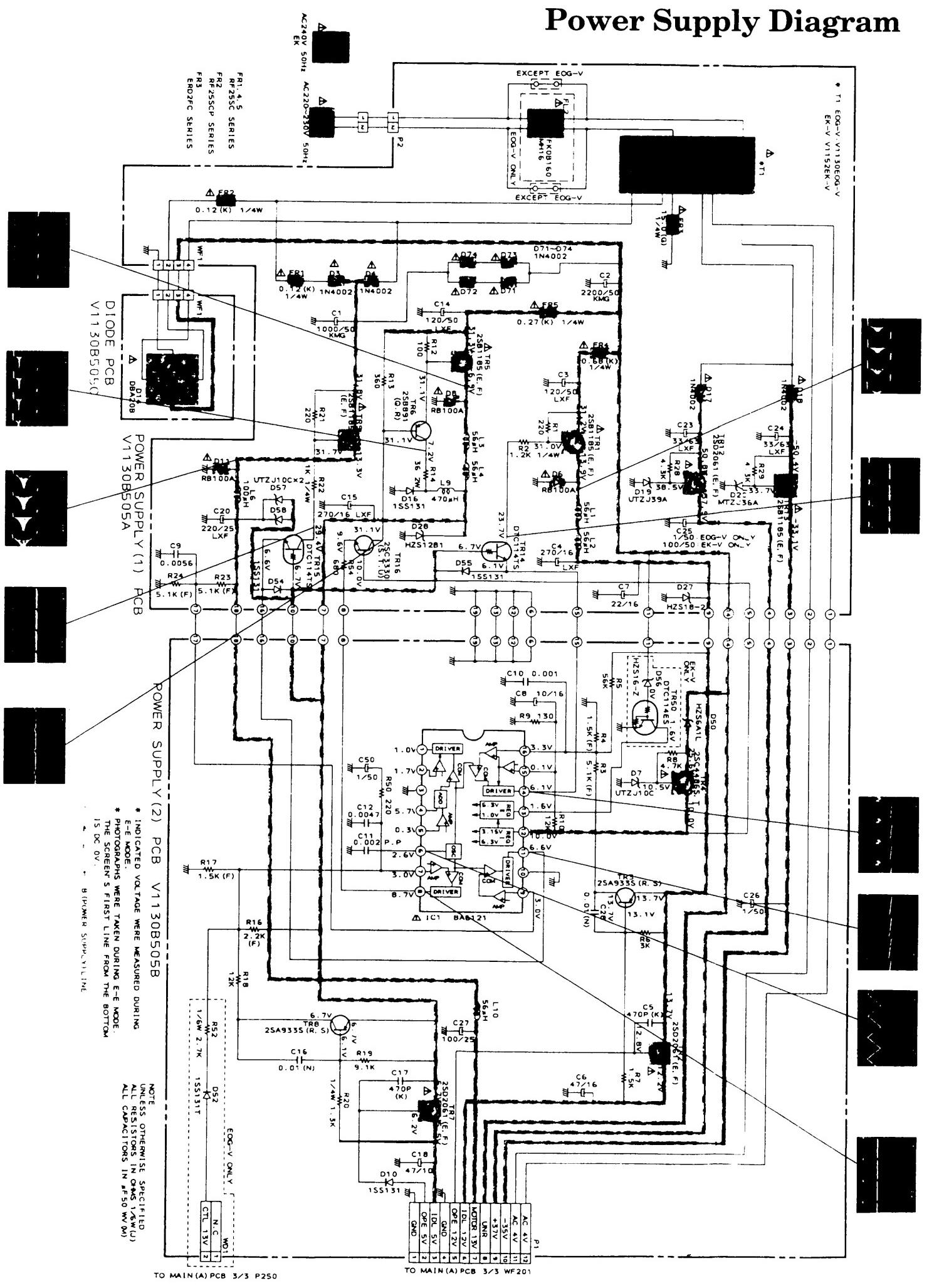
# Main Diagram



## Pre Amp Diagram

JFX/JFX-L  
PRE AMP

# Power Supply Diagram



## Operation (G) Diagram

